

Orlinton Farm Notes

Harold J. Nielsen

Arlington Farm Notes.
Harold T. Nielsen.

Notes on Cowpeas. Oct 6 - '05

2386 - A vigorous grower, which has fruited real well. It is semi-trailing about 24 inches high with runners 4 to 5 feet long. More than half the pods are ripe. It seems to be somewhat mixed as there are some plants with all the leaves on yet, while others are nearly bare. The stand is perfect.

Picked Nov. 3.

2387. A very good grower, and good producer. The soil also is rather poor. More than half the pods are ripe. It is nearly erect, though it trails somewhat. It is 20 to 24 inches high, with runners $2\frac{1}{2}$ to 3 feet long. The stand is perfect. It is quite a promising variety, but is a little too slow a grower. Tho it might do all right in good soil.

Picked Nov. 3.

2633. It is not in any particular way different from 2387. It is a little later though about half the pods are ripe. It is a little smaller also, due to the soil. It is 18 to 20 inches high, nearly erect, and a perfect stand. Fairly promising.

Picked Nov. 2.

634 - Very similar to 2633 - Stand perfect
✓ 15 to 20 inches high, and runners scarce,
about 30 inches long. Fruited well,
about half of them ripe. Would do very
well, I believe in good soil. Picked
Oct. 10 Nov. 2

635 - Similar to 2633-4, but being on a
little better soil it has grown larger
and fruited better. It has also made
✓ it a little later and not half the pods
are ripe. It is 24 to 25 inches high,
runners about 3 feet long, and a
perfect stand. It is quite promising
but a little too slow a grower.
Picked Nov. 2.

636 - Practically, identical with 2633.
✓ stand is perfect. Picked Nov. 2

643 - Low growing - trailing form. About
15 to 18 inches high, and runners
3 to 4 feet long. It loses its leaves
badly, as they are all gone now, and
nearly half the pods are green yet.
The stand is only about 6 - It is in a
strip of pretty poor soil, but it is of
no value I think. Picked - 10/6.

2649- Has made a very poor show here, while in another place it did well. Due to the soil. Semi-trailing, 12 to 14 inches high and runners about 3 feet long. Has fruited very poorly. Nearly all pods ripe. Stand is about 8. Picked 10/6 -

979-3 Has made a very good growth. Is a small leaved, fine stemmed variety.
✓ Pods are also small. It is semi-trailing, yet quite erect, being 24 to 27 inches high and runners 2½ to 3 feet long. Stand is perfect. Looks as if it would be good for forage.
Picked Nov. 2.

1257-3 A quite vigorous semi-trailing form, which has fruited very poorly for its size. About half the pods are ripe. 20 to 24 inches high, with runners 3 to 4 feet long. The stand is perfect. It is not at all promising. Picked Nov. 2

1275-3 Has made a fairly good growth, but is pretty late, as there ^{are} very few ripe pods as yet. It is semi-trailing 18 to 20 inches high, and runners 3 to 4

feet long. The stand is perfect. It seems to be too late to be of much value in this locality.

Picked Nov. 2.

278-3 A late variety, which has made a very small growth, but this must largely be accounted for by the fact that it is on a patch of bad clay land. There are very few ripe pods yet. It is semi trailing, 12 to 15 inches high and runners about $2\frac{1}{2}$ feet long. Stand is perfect. Indications are that it is of small worth. Picked Nov. 2

479-1a1- A late variety, as there are only a very few ripe pods as yet. According to its growth it is erect, but being on a stiff yellow clay, the evidence is not conclusive. It has fruited quite well. It is 12 to 15 inches high and the stand is perfect. It does not appear to be of much value. Picked Nov. 2.

1985-1g. A late variety, but a pretty strong grower. A few pods are ripe. It is semi trailing, about 20 in.

high, and runners about 4 feet long. Has
fruiting reasonably well. Is still
blooming. Stand is perfect. It
is too late to be of any value in the
locality. Picked Nov. 2

2012-1 Very late, no ripe pods yet. Blooming
freely now. Fruiting fairly well.
Semi-trailing 20 to 24 inches high
and runners 4 to 5 feet long. It has
lost but few leaves yet. Stand is
perfect. It is entirely too late for
this locality. Picked Nov. 2.

2642- Very late - no full grown pods on
it. Quite a good, but a slow grower.
Blooming freely. Semi-trailing, 20
to 24 inches high, runners about
3 feet long. Stand perfect. It is
decidedly too late to be of much
value in this section.

Picked Nov. 2

2023-1 It is on very poor clay soil, and so
doesn't show up very well. It has
made but a poor growth, and also
fruiting very poorly. It is semi-trailing

12 to 15 inches high, and runners
3 to four feet long. Stand about
8. Doesn't look to be of any value
but it might show up well on a
good soil. Picked Nov. 2.

6431-a. A low growing, trailing sort
of a plant. Has made poor growth,
and fruited poorly, but it may be
due to the character of the soil.
It is all ripe and dry. It is about
12 inches high, with runners
about 3 feet long. All seeds (8)
planted came up and grew so
it is perfect. Not promising in
my opinion. Picked - 10/6-

233-3 Has made fairly ^{good} growth considering
the soil. It has also fruited
very well. It is semi-trailing,
about 15 inches high, and the
runners 2½ to 3 feet long. Stand
is perfect. I believe it would
do real well on good soil, and it
is promising. Picked Nov. 2.

4496-2 - Has done fairly well as it is on very poor soil. Semi-trailing, about 15 inches high and runners about 2½ feet long. Nearly all the pods are ripe, and nearly all the leaves have dropped. Stand is perfect. It is not a very promising looking variety but might do much better on good soil. Picked - Oct. 6.

1590. - Has made a fair growth, but the stand is not over 2 and hardly that. Semi-trailing, 15 inches high and runners about 3 feet long. Has fruited fairly well, and most of the pods are ripe. Picked Nov. 2.

8354 - Low growing, trailing variety. Only 8 or 9 inches high, and runners about 4 feet long. Has fruited but very little. Pods are long, slender things 12 to 15 inches long. It does not appear to be of any value, but might do better on good soil. The stand is perfect. Picked - 10/6.

1210-3. Has made a fair growth, considering the soil. Has not fruited very well. Semi-trailing 15 to 18 in high, and runners about 2½ feet long. It is a fine stemmed plant. Stand is perfect. I do not think it of much value. Picked - 10/6

✓ 1224-3 Has made a very good growth and fruited quite well. It is semi-trailing about 20 inches high, and runners 4 to 5 feet long. Over half the pods are ripe now. Stand is perfect. It is a fairly good variety, but is inclined to run to vine a little too much. It is also rather late. Picked 10/7

✓ 1231-3. Has made a fair growth, and matured its seed well. It fruited very well. Nearly all pods ripe now. Semi-trailing, 18 to 20 inches high and runners 4 to 5 feet long. Stand is perfect. I deem it a good variety. Picked - 9/19 - first. 10/6 last.

✓
1232-3. Made a fairly good growth. It is semi-trailing, 18 to 20 inches high, runners about 3 feet long. Fruited very well. All pods are now ripe. The stand is perfect. I believe it to be a fairly good variety. Picked 9/19 - first 10/6 last.

2632. A low growing, late variety. Not any pods full grown yet. It is semi-trailing but mostly trailing. 12 to 15 inches high, and runners 3 to 4 feet long. Has not fruited much, but is still in bloom. Stand is perfect. It is not promising for this section, as it is too late.

Picked Nov. 2

✓
980-3. Made a good growth and fruited well, especially the soil. It is a vigorous grower. It is fairly erect, about 18 inches high, and the runners hardly noticeable. All the leaves have dropped, and practically all the pods are ripe. The stand is perfect. It is a desirable variety to grow for seed, I believe. Picked 10/6 first. Nov. 2

1208-3 Made a very good growth, and
matured a fair crop of peas,
quite early. All pods are ripe
and might have been picked some time
ago. It is semi-trailing, 18 to
20 inches high, and runners 3 to
4 feet long. Stand is perfect. On
account of its early maturing it
is a promising variety. Picked
9/19 - first. 10/6 last.

2631 - A low growing, late, trailing
variety. But very few pods ripe.
Has not fruited very well. It
is still blooming. It is 15 to
16 inches high and runners
about 3 feet long. Stand is perfect.
It is too late for this locality.

Picked Nov. 2

2641 - low growing - trailing variety.
13 to 18 inches high and runners
5 to 6 feet long. It is a late
variety as there are no ripe pods.
The pods upon ripening turn
brownish black. Has not fruited
heavily but is still blooming. Stand is
perfect. Not promising. Picked Nov. 2

6431 - Semi-trailing, 12 to 15 inches high and runners about 5 feet long. Did not fruit very much, but probably due to soil conditions which are bad. They are all ripe and picked. Stand is about 6. It is not very promising. Picked - 10/6.

12416-161 Very late as there are only a very few pods ripe, and most of them are not full grown. Flowering considerably. It is semi-trailing 15 to 18 inches high, and runners 3 to 4 feet long. It is too late to be of much value for this locality. The stand is perfect. Picked Nov. 2.

14180-2. Small, scrawny things, but this is due largely to the soil, I believe. They are quite erect, although there are many runners on them. 15 to 18 inches high, and runners 1½ to 2 feet long. A few pods are ripe. Stand is perfect. Does not look promising. Picked Nov. 2.

14186-2 - A rather late variety, though there are a number of ripe pods. It is very poor looking and doesn't amount to much.

It is semi-trailing 18 to 20 inches high, and runners 3 to 4 feet long. the stand is perfect. Soil is rather bad here, but the peas in of small value anyway I believe.

Picked Nov. 2.

9541-1 A late maturing variety, as there are very few ripe pods yet. Has not fruited very well, and is still blooming. Semi-trailing 18 to 20 inches high, runners 3 to 4 feet long. Stand is perfect. It seems to be too late for this locality, though the soil may have something to do with it.

Picked Nov. 1

2013-1 Has made a very good growth, but seems a little too late for this locality. A large number of
✓ pods are ripe, but the plants are still in bloom. It has fruited very well however. It is semi-trailing, 12 to 15 inches high, and runners $2\frac{1}{2}$ to 3 feet long. Stand is perfect.

Picked Nov. 1

630- Almost a trailing form. about 15 inches high, and runners 4 to 5 feet long. It is late, as with very few exceptions the pods are all green. It has not fruited very well and all in all it is not a very desirable form to grow. The stand is perfect. It is still blooming, although it has lost many of its leaves.
Picked Nov. 1

✓ 209-2- It is a very late variety as there are no ripe pods, and very few full grown. It is semi-trailing 18 to 20 inches high, and runners 4 to 5 feet long. It seems to be a vigorous grower, but is a little too slow and late about it. There are many flowers. Stand is perfect.
Picked Nov. 1

✓ 219-3. Made a good growth, and matured early. As it is all ripe and picked. It is semi-trailing, 18 to 20 inches high, with runners about 3 inches long. On account of its early maturing it seems to be a desirable variety to grow, especially for the grain. Stand is perfect.
Picked. 9/19 first. 10/16 last.

1490-2. A fairly good grower, which ~~is~~
matures early. Fruits very well, and
✓ is all together a very good variety. It
✓ is semi-trailing, 15 to 20 inches high,
and runners about 30 inches long. The
stand is perfect. Picked 9/18 - first.
10/7 last

2004-1 A strong grower which matures
early, all pods being picked. Semi-
✓ trailing about 20 inches high, and
✓ runners 2½ to 3 feet long. The stand
is perfect. Indications are that it
is a good variety for this locality.
Picked 9/26 -

2645. A rather late variety as there are
very few pods ripe as yet, and
there are still a number of flowers
on the plants. It is too much
of a trailer to be of any real value.
It is about 15 inches high, with
the runners 5 to 6 feet long. Has
not fruited very. Stand is perfect.
I consider it to be of small value.
Picked Nov. 1

785-3. A vigorous grower which has yielded
pretty well. It is rather late

as there are many green pods on it yet.
It is semi-trailing, 20 to 24 inches high
and runners 4 to 5 feet long. It is a
very promising variety. The stand is
perfect. It seems a little too late
for best development. Picked 10/7
first, Nov. 1.

✓ 1090-2 - A very vigorous grower, and heavy
yielder. It is quite late, although
nearly all the pods are ripe. There are
✓ some green pods left. It is semi-trail-
ing 24 to 27 inches high. runners about 4
feet long, stand perfect. A very promising
variety for this locality. Picked 10/7 first
Nov. 1.

1248-3. A very good grower, and yielded fairly
well. There are some green pods yet.
It is semi-trailing, but rather
too much trailing to be a desirable
variety. 15 to 18 inches high and
runners 4 to 5 feet long. Stand in place
Picked - 10/6 first. Nov. 1

✓ 1269-2 - A vigorous grower and good yielder
✓ Semi-trailing, 20 to 24 inches high
and runners about 4 feet long. Stand
is perfect. It is rather late as

there are many green pods yet. The leaves have nearly all dropped. It is a good variety, I believe.

Picked - 10/6 first Nov. 1.

✓ 490½-1 Made a fairly good growth, and fruited quite well. It matures in good time, being all out of the way now. Semi-trailing, 18 to 20 inches high, and runners about 4 feet long. The stand is perfect. It would seem to be a desirable variety. Picked - 10/6

✓ 596-1 A strong and vigorous grower, but it is rather too late, I fear, as there are no ripe pods yet, and very few are full grown. It is blooming to a considerable extent. It has fruited very well. It is semi-trailing, about 20 inches high, and runners about 4 feet long. Stand is perfect. Would seem to be a good pea for farther south. Picked Nov. 1

✓ 1936-1 A vigorous grower and heavy yielder. Nearly all pods are ripe.

It is an erect form, 25 to 27 inches high and a few runners which are about 2½ feet long. The stand is perfect. Looks like a very good variety for this section. 10/7 first picking.

11/1

2003-1 A good grower but very late, there being no full grown pods yet, and it is blooming very extensively. It is semi-trailing, 20 to 24 inches high, and runners 3 to 4 feet long. A perfect stand. Indications are that it is too late for this section. It is fruiting very well.

2009-1 A trailing variety, which made a very good growth, but it runs to vines too much. 15 to 18 inches high, and runners 5 to 6 feet long. It has ripened up and is all out of the way now. Stand is perfect. It is not a desirable variety in my opinion. Picked 9/27 - first. 10/7 last.

2020-1 Strong vigorous grower. Rather late as it is still blooming, although most of the pods are ripe. It has

produced real well. Semi-trailing,
25 to 27 inches high, and runners
3 to 4 feet long. Stand perfect. Seem
to ^{be} a desirable variety. Picked
Nov. 1

6444. Ripe and picked. Quite a strong grower,
but is too much on the trailing
v order to be valuable. 12 to 15 inches
high, and runners 4 to 5 feet long.
Stand is perfect. fruited reasonably
well. Picked - 9/26 - Picked 10/7 first.

221-3. A late variety, though more than
half the pods are ripe. There are
still a number of flowers. It
is semi trailing 15 to 18 inches high,
and runners 2 to 4 feet long. Not
very desirable as they are too trailing.
Stand perfect. Picked 10/7. first.
Nov. 1.

605-1 Quite late, about half the pods
are ripe. Has made a very good
v growth and fruited quite well.
Semi trailing, about 20 inches high,
runners about 3 feet. Stand perfect
quite promising. Picked - 11/1 first.

2008-1- Quite a tall grower, and pretty erect. about 24 inches high, runners about 2 feet. Rust affected it badly. Has not yielded very well. Not promising from a seed producing standpoint, but is probably good for green manure. Stand perfect. Picked 9/27 first. 10/7, 11/1.

2014-1 A viney form. about 15 inches high and runners 4 to 5 feet long. All ripe and picked. Is not a very good yielder, and not at all promising. Stand perfect. Picked 9/27 - first. 10/7 last.

2021-1 Trailing form. Very similar to 2014-1. 15 to 18 inches high, and runners 4 to 5 feet long. It runs to vine too much to be of much value. Did not fruit very well. Stand perfect. Picked 9/27 first. 10/7 last.

2016-1 Very late, few full grown. very trailing, of no value. 15 inches high, runners 3 to 4 feet long. Stand about 8. Picked Oct. 31

2001-1 Not essentially different from 2016-1. Stand about 8. It has no promise apparently. Picked Oct. 31

45a. Has made a pretty good growth.
Fruited fairly well, and nearly
all pods are now ripe. Semi-
trailing, 18 to 20 inches high, run-
ners about 3 feet long. Stand perfect.
Not especially promising. Picked Oct 31

916-9. Has made a fairly good growth.
About 20 inches high. runners
3 to 4 feet long. Has not fruited
very well. Still blooming, but
about $\frac{1}{2}$ the pods are ripe. Stand
is perfect. It does not look
promising. Picked Oct. 31

936-19 No full grown pods yet, very late.
Many flowers yet. 20 to 24 inches
high, runners 3 to 4 feet long.
Stand perfect. It is too late to
be of any value in this locality, I
believe. Picked Oct. 31

007-1 Low growing, viney thing, Has
not fruited well. About half the
pods ripe. 18 to 20 in high. runners 4 ft.
stand perfect. Seems of small value.
Picked Oct 31

2018-1 All ripe and picked. Runs to vine too much to be real valuable. Did not fruit well. 15 to 18 inches high. runners about 4 feet long. stand perfect. Picked 10/7 -

2019-1 - Ripe and picked. Runs to vine pretty much, and is very similar to 2018-1 It is not of much value in my opinion. About 15 in. high runners about 4 feet. stand is perfect. poor yielders.

2022-1 Not essentially different from 2018 only a little later. very poor yielder. 15 inches high, runners 4 feet. Stand perfect. M. G. But takes it badly. Picked Oct. 31

2024-1 Low growing. trailing form. About 15 inches high, runners 4 to 5 feet long. Has fruited very poorly. About half the pods are ripe. Stand is about 9. Not at all promising. Picked Oct. 31

2025-1 All ripe and picked. Yielded pretty well. ✓ 18 to 20 inches high, runners about 3 feet. Stand perfect. A promising variety. Picked - 9/27 Oct. 31

2027-1 A very good grower, and a rather good yielder. Fairly erect, about 20 inches high, and runners $2\frac{1}{2}$ to 3 feet. Rust has attacked it pretty badly. Most of the pods are ripe. The stand is perfect. It is somewhat promising. Picked 9/27 - first. Picked Oct. 31

2637 - A very good grower, and yielder, fairly erect, about 20 inches high, and runners $2\frac{1}{2}$ to 3 feet long. Stand is perfect. It is fairly promising. Very similar in growth to 2633-4-5 and 8. - Picked 9/27 - first. Oct. 30

2638 - Very similar to 2637 - a good grower and yielder. A little more trailing than 2637. About 18 in. high, and runners 4 to 5 feet long. Nearly all the pods are ripe. If not so viney it would be real promising. Stand is perfect. Picked Oct 30.

2639. With the exception of being a little more erect - 20 to 24 inches - it is practically identical with 2638. Quite promising. Stand perfect. Picked Oct 31

Oct. 9.

2640 - Almost identical with 2638. Nearly
all the pods are ripe. It has yielded
✓ 15 to 20 inches high, runners 4 to 5 feet
long. Stand perfect. It seems a little
too trailing to be of much value.
Picked Oct. 31

India Group, is, taken
on the whole, of no practical value.
They are small peas, decidedly trailing
growers, forming immense tangled mats.
In addition to these drawbacks all are
also very late, and with 1 or 2 exceptions
they are too late to mature in this section.

1617-19. Very late, no full grown pods,
about in full bloom. Apparently
going to fruit very little. It seems
to be quite vigorous, but is a slow
grower. It is 20 to 24 inches high,
runners 3 to 4 feet long. Stand is perfect.
Too late for this locality.

620-19 - Trailing, running right along the ground.
In full bloom. very few pods, and all green.
Runners about 5 feet. height 10 in. Stand 7.
Picked Oct. 31

631-1 Also decidedly trailing, there being practically no difference between it and 1620-1g. A few pods are beginning to ripen. Too late to be of any value. Stand about 8.

625-1 A little earlier than the previous ones, as about half the pods are ripe. It has fruited very little and hardly seems worth bothering with. It is 12 to 13 inches high, and runners 3 to 4 feet long. Stand as perfect.

625-1g. Practically identical with 1625-1, as I can not notice any difference.
Picked Oct. 31

629-1 Small leaved, fine, and not a very good grower. 12 to 15 inches high, runners 3 to 4 feet long, stand perfect, and some pods just beginning to ripen. It is flowering considerably yet. I deem it of no value.

629-1g. Practically identical with 1629-1 with the possible exception that it is

a trifle larger, which has also made
it a little later. Stand in perfect.
Picked Oct. 31

1630-1g. But very few pods on it. Blooming
quite freely now. Decidely trailing,
15 inches high, runners 4 to 5 feet
stand perfect. Too late and too trailing
to be of much value in my opinion.
Picked Oct. 31

1632-1 Very fine leaves and stems, pods
ditto, and not many of them. Low
growing and trailing. 12 inches high
runners 4 feet. Stand perfect. It
does not seem to be of any value.

1632-1g. Identical with 1632-1 but has had
fruit as well. No good.
Picked Oct. 31

✓ 1636-1 Has fruited very well, but the pods are
so measly small, they don't amount to
very much. It is not quite as
trailing as the preceding ones, although
in a small leaved, fine stemmed
grower. Nearly all the pods are ripe.
About 18 inches high, runners 3 to 4 feet, Stand
perfect. Picked Oct. 30

1636-19. A selection from 1636-1, I believe
but it is so nearly identical with
✓ 1636-1 that there is no apparent
difference. Stand is perfect.
Picked Oct. 30.

1638-19. A strong, vigorous grower, but
has not fruited to amount to
anything. It is trailing, about
18 inches high. and runners 5 to 6
feet. It has lost but very few
leaves yet, but still it is not
blooming any. Stand is perfect.
Picked Oct. 31

8687 - More erect than any of the others,
but is extremely late. as it has
not begun to flower yet. It
is 24 to 27 inches high and runs
about 3 feet. Stand is perfect.
It has all of its foliage yet.
It is entirely too late for this
section so far as seed goes.
It might be good for forage.

Oct. 9 —

Notes of comparison on the
Phaseoli.

Phaseolus Viridissimus.

Nos. 1161, 6430, 9889, 9890, 10407,
and 8814 are practically identical
though 1161 seems a little earlier than
the others.

Phaseolus Spp.

6417 - 6418, and 8487 are very similar
8487 ripening a trifle earlier than
the other two.

Nos. 6564, 13380, 13381, 13382, and 13383
are so nearly alike, they can and
be considered as one for practical
purposes, so far as growing habit
is concerned, but the seed varies in
color.

Nos. 13398 and 6562 show a little sim-
ilarity but it is not especially
noticeable.

Nos. 8541, 13403 and 13402 are for all
practical purposes the same.

9786 and 10610 are quite similar.

13400 and 13401 are very much alike. In fact they seem to be identical. They also show much similarity to 8844, and 13402 and 3. but are somewhat smaller, and the seed is not just the same color.

8488 - 10523, and 13391 are almost if not quite identical, and are very similar to 13392 and 3, practically the only difference being in the color of the seeds, the former being red, and the latter gray mottled.

Nos. 13384 - 5 - 6 - 7 - 8 - 9 and 90, at present show great similarity so far as the habit of growth are concerned. They are not yet sufficiently developed to determine whether they are the same or not.

Nos. 13394, 13397 - and 13398 are
very much alike and I am inclined
to think they are the same, although
13398 varies from the others in color
of seed. Their habits of growth are
very nearly exactly the same.

Sorghums. Oct. 9-

9855-✓ Reading out.

14510 ✓ " "

14512 ✓ " "

14513 ✓ " "

14519 ✓ " "

14523(?) ✓ " "

14524(?) ✓ " "

14529 ✓ " "

14530 ✓ " "

145216 ✓ " "

14547 ✓ " "

14532 ✓ " "

14533 ✓ " "

14537 ✓ " "

14538 ✓ " "

14539 ✓ " "

14560 ✓ " "

14561 ✓ " "

14562 ✓ " " Oct. 15-

14567 ✓ " "

14571 ✓ " "

14574 ✓ " "

14578 ✓ " "

14579 ✓ " "

All India Sorghums with the

exception of 14~~5~~81, now noted from
14370 to 14646.

14647 ✓ Heading Out.

14648 ✓ " "

14652 ✓ " "

14653 ✓ " "

14658 ✓ " "

14659 ✓ " "

14661 ✓ " "

14663 ✓ " "

14694 ✓ " "

14696 ✓ " "

14698 ✓ " "

14708 ✓ " "

14710 ✓ " "

14716 ✓ " "

14729 ✓ " "

14730 ✓ " "

14731 ✓ " "

14732 ✓ " "

14737 ✓ " "

14739 ✓ " "

14740 ✓ " "

14741 ✓ " "

14743 ✓ " "

Oct. 9.
Heading Out.

14745 ✓

14747 ✓

14752 ✓

14753 ✓

14736 ✓

14757 ✓

14758 ✓

14765 ✓

4538 ✓

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Notes on Sorghums.
Things to be noted especially.
Stand. Stooling. Leaves, whether
abundant or not. Heads, - position,
and whether compact or loose. Time
ripe, and evenness.

Oct. 10 -

9796 - Stand perfect. - Stooling scant, seldom
more than 2 stools. Leaves fairly abundant.
Heads, goose neck, and compact. Been
ripe since Oct. 1, very even.

11059. Stand 6 stalks. stooling none. Leaves
abundant and very large. not headed.
stalks of enormous size.

11060 - 2 stalks one row. stooling none. leaves
numerous and large. not headed
yet. stalks very large.

11063. Did not germinate.

11064. Stand fair. stooled very little, as only
a few of the stalks has any stools at all.
just 1 row. leaves numerous and
large. Heads not out yet. Stalks large

11065 - Stand rather poor, 6 plants.
Stooled very little but is beginning
to sucker a little. leaves numerous
and large. Not headed yet.

11066. Stand poor. stooled very little.
leaves numerous, Not headed yet.
stalks large.

11083. Thick stand, stooling scant,
only a few with more than 2 stools.
leaves quite plentiful and good
size. Not headed yet. Stalks
large and coarse.

11084. Stand fair. Stooled extensively.
4 to 5 stools. excellent leaf system.
leaves of great length. Would
seem good for forage though
the stalks are a little too large.
Not headed yet. 11 to 12 feet high.

11085 - Good stand. stooling scant. leaves
fair supply. Not headed yet, but is
just beginning. ^{erect.} stalks not
large. but about 14 feet high.

1119. Stand good, stooling scant, not more than usually. leaves numerous. beginning to head, erect. Stalks 11 to 12 feet high.

1793. ^{thick} good stand. stooled considerably, 2 to 3. leaves quite abundant and large. Has not headed yet. attacked by leaf blight. Very similar to 1119.

12371. Good stand, stooled considerably. 3 to 4 stools. leaves average. Has not headed yet. 10 feet high. a little blight.

12372. Poor stand. stooled considerably. 2 to 3. leaves very numerous and large. stalks short and very thick. 6 feet. Has not headed yet.

- Oct. 10. -

12373. Thick stand. stooled considerably 2 and 3. leaves are about the average. medium sized stalks, 8 feet high. Has not headed

12374. Fair stand. Has not stooled. average leaf system. large stalks, 11 feet high. No heads

8813 - thick stand, stood much, 4 to 5 - leaves average, but small. Heads erect quite open. ripe Oct 1. stalks thin, 11 feet high. quite promising.

9853 - Thick stand, good stooking, 3 to 4. leaves abundant and good size. heads erect just coming out. stalks good size, 11 to 12 feet. good for forage I believe.

9856 - Stand good. stooking good, 3 to 4. leaves ~~very~~ good average, small. Heads erect and compact. stalks fair sized 10 feet high.

10327 - Stand fair. stood extensively 4 to 5. leaf system very good, and large. Not headed yet. stalks large. 10 to 11 ft. Would be good for forage. Blight a little.

10612 - Stand rather thin, stooking scant. 1 to 2. leaves small and rather scant. heads goose neck and quite close. nearly ripe. stalks average size 9 ft. not promising.

11134. Stand good. Stooking fair. 2 to 3. leaves average. Heads erect, open, ripe 3 weeks.

stalks average, 8 to 9 feet.

Oct. 12.

1133 Stand good. Stooling fair, 1 to 3. Leaves average. Heads erect and open, ripe. about Sept. 15. stalks average 10 feet. seems a good crop for forage.

1136 Not essentially different from 1133. stalks a little larger and taller.

1136. Very similar to 1133. - Stooled more freely. Heads open black.

1137 Stand thick, stools 1:2. good. Leaves average for knif corn. Heads erect, close, ripe. Oct 1. 6 to 7 ft. average size. white grain.

1138. Same as 1137, only grain is red when ripe. stand not so thick.

604. stand good. Stooling fair. 2 to 3. leaves rather scant. heads erect. inclined to be close, ripe Oct 1st. not very even. stalks average. 9 ft.

659. Very much like 604. heads a little larger and more open. stalks larger and taller.

1697- Thick stand, stood well. 2:3. leaves a little larger than average. Heads erect and rather open. Ripe 2 weeks. stalks larger than the average 10 feet high. heads good size.

2117. Good stand, stood freely. 4:5. Leaves average. heads drooping, open, ripe 3 weeks. stalks average, 11 to 12 feet. Seems very good.

2119. thick stand, stood 4:5. leaves very fine. heads drooping open rather small. ripe Oct. stalks thick, 8 ft. looks real good.

1606 In growth not different from 2117.

666. Thick stand, 3:4 stalks. leaves very good. heads erect open, ripe Sept. 20. stalks average, 8:9 feet. looks very good.

1694. In growing not different from 1656.

2114 ditto.

2123 " but heads not so large and more open, and stalks a little larger and taller.

1616. Fair stand, stood 3 to 4. leaves

scarce. heads erect, very open quite small.
ripe long time. stalks small, 7:8 ft.

658. Stand good, stools 3:4. leaves scant. heads
erect very open. little grain. stalks a little
larger than average 10 to 11 feet. too few leaves.

695. Very similar to 658, but stalks are smaller
and not so tall. leaves too scarce.

742. Not unlike 695 in growth.

118. Stand good, stools 3:4. leaves fair. heads
erect open, ripe Oct. 1. growth very much
like kafir corn, but heads are like sorghum.

2439. Stand good, stools scarce, 2:3. leaves scant
heads erect, open, ripe long time. stalks
average, 8 to 9 feet. Inclined to lodge.

660. Stand good, stools ditto 4:5. leaves average. Heads
erect open, good size. ripe 2 weeks, not even. stalks
average, 9 feet high. looks fairly good.

752. Stand good. Stools fair 2:3. leaves average
but good size. heads erect open, ripe Oct 1. stalks

1661. Looks very much like 1752, but everything about it is larger. stand rather thin. Looks like a very good one.

1696. Not essentially different from 1661 but not quite so large. both been ripe for 3 weeks.

2095. Very similar to 1696 but still smaller. quite badly mixed with kafir also.

2125. Stand good. stools 3 to 4. leaves average considerable blight. heads erect, close, quite small. stalks small, about 7 feet. Looks very good, as there would be little waste.

2057. Stand a little thin stools good 5 to 6. leaves average. heads drooping, open, quite large. stalks average. about 9 feet. very good.

1811. In growth the same as 2057. both have been ripe for quite a while.

1776. Stand thick, stooling very good. 3 to 4. leaves very numerous and large. Not headed yet. stalks good size. 6 to 7 feet. Seems excellent for forage.

735. Same as 776. but stood even better. stalks
not quite so large.

665. Stand fair, standing fair 2:3. leaves very good.
heads erect and open. ripe quite a while stalks
large. 10 feet high. looks like a good one.

654. Stand rather thin. standing good. 4 to 5. leaves
average but large. rather mixed. some have
headed and some not. heads are erect, open
just ripe. stalks ^{very} large. what has headed
is about 12 ft. what is just beginning is
14. Would seem to be good as it stands up well.

598. Stand good. Standing scant, 1 and 2. leaves
average but killed by blight heads erect
open. large not ripe. stalks quite large. 12 ft

581. Stand good. standing scant, 1 and 2. leaves average
done up by the blight badly. heads erect good
size, open. ripe for 3 weeks I believe.
stalks average a little large. 10 to 11 feet.

595. Stand good, stalks scant 1:2. leaves fair
but badly done up with blight. heads erect, large
and fair size. stalks good size. 8 to 9 ft. not very good

1607. Good stand, stools good 3 to 4. leaves average, blight very bad. heads erect, dense, and not very large. stalks average 10 to 11 ft. fairly good.

2000. stems very good, stools scant, very few with 2. leaves very good and size ^{some blight} also. heads erect, open good size. ripe long. stalks large, uneven 7:11. good.

1812 - stand good. stools very good. 4 to 5. leaves are excellent and large. heads mostly erect, some goose neck, not very open. stalks good size, 10 to 11 feet. Looks very very good.

1945 Very similar to 1812. stalks a little larger and heads a little closer.

1946. Stand O.K. stools good 3 to 4. leaves very good heads erect and close, grain red. ripe long. stalks small, 8:9 feet. looks very good.

2120. Stand fairly good. stools good 3 to 4. leaves average. heads erect, open. quite large stalks average. 7 to 9 feet. ripe long.

2121. In general not very different from 2120. heads ~~quite~~ more compact more even big Mt

2124 - Very much like 2121 but heads are a little larger, and leaves a little more numerous.

1582. Stand good, stools fair 2:3. Leaves mid. Heads drooping, rather short. 11 feet high.

1583 - Smaller than 1582 - not so vigorous. Breaking down badly, heads shorter than 1582. H. G. 9:10.

1600. Stand good, stools good 2:3. Leaves mid. Heads are rather short. Large 11 to 12 feet. Too short for large brooms.

1602. About like 1583.

1666. Thin stand, very little stooling. Heads are good long ones. Ripe long, and all broken down now. It seems very good.

1777. Good stand, very fair stools 2:3. Very similar to 1666, but heads a little shorter and stand up.

1998. Almost identical in growth with 1582.

2425. Stand good, stools scant. 1 and 2, heads quite long just ripe, 11 to 12 feet high, stand up good.

2426 - 5 plants. stools 1 and 2. leaves fair, good size. heads erect, open good size. stalks large, 8 ft. looks fairly good.

2427. Stand fair. stools scarce 1 and 2. leaves average. good size. heads erect open good size. ripe 3 weeks or more. stalks average 7 to 8 feet. Two stalks very large. 12 feet. looks good.

2438. Very similar to 2425, but heads are a trifle shorter I guess.

663 - Thick stand. very good stools, 3:4. leaves very numerous and large. Not headed. stalks real large 6:6½ ft. seems as if it would be ^{very} good for forage.

667 - Thin stand, stools scarce 2:3. leaves average. blight bad. heads nearly all good neck. dense. 6 ft. very good for grain.

1698, Apparently the same as 1657.

741 - Rather thin stand. stools good 2:3. leaves numerous and large. Not headed. stalks large 6 ft. seems good for forage.

1744 - Practically the same as 1741 but larger 7 ft.

1745 - Same as 1744. stalks very large.

1746. Almost identical with 1741. 4 to 5 ft.

1753 - stand very thin, stalks fair 2:3. leaves average heads nearly all goose neck, some erect. close, some mixture not quite ripe. 7 ft. av.

2090 - Good stand, stalks good 3 to 4 leaves average. heads mostly erect some goose neck. Close. ripe since Oct 1. 7½ ft high average size.

2592. Practically no different from 2090.

1751 - Thin stand, stalks very scarce. 102. leaves average for kafir. heads erect quite close, large been ripe for 2 weeks ^{about} 6 feet high and looks very fine. even.

1116 I think it is identical with 1751. just ripe.

1591 - Very thin stand, no stalks. leaves average. heads goose neck most of them. quite open for goose necks, also large. just ripe. 5½ ft. it looks fairly good.

592 - fair stand. stock scarce: 2 leaves average. heads nearly all erect a few goose necks. open and large with very large kernels. ^{reeds.} 7 ft. looks very good.
n.h.

701. Very nearly like 1391 but a little larger. ^{ripe}

7418. Growth very similar to 1657, only seed is white, and the blight has not bothered. ^{just ripe}

17521 - Thin stand. few necks. leaves average for white kafir. heads erect close, nearly ripe. $5\frac{1}{2}$ feet high. looks nice.

733. Very thin stand. no necks leaves average. tub kafir. heads erect, close, nearly ripe. Looks very good.

2523. Thin stand. Same as 1733.

1700. Very thin stand. Same as 17521. large heads

1749. Same as 1700.

1993. Fair stand. same as 17321.

113. Good stand. few necks 1 or 2. Same as 1700. looks fine.

122. Fair stand same as 1754. larger heads.

579 - Good stand. Stooled fairly well. 2:3. leaves average. Heads nearly all gone neck and done. ^{small}ripe for 10 days. Average size. 8:9 ft.

152. Same as 1579.

653. One stalk. 1 stool. leaves average. head gone neck, compact, fair sized not ripe. 7 feet high, large.

738 - 1 stalk. no stools. excellent leaves, large. No heads large stalk. 6 feet high.

046. Good stand, stools scant, only 1. leaves very good. heads, about half erect, half gone neck, quite open, rather small. nearly ripe. 7 to 8 ft. average size.

047 - good stand. little stooling. 1 or 2. leaves abundant good size. just heading. stalks good size. 7 ft.

2053. thin stand, good stooling 3 to 6. leaves abundant good size. not headed. stalks good size. about 9 ft.

215. Thin stand. superb stooling. 6 to 14. leaves abundant good size. not headed. stalks good size. 10 ft. good for

1716. Fair stand, otherwise very nearly like
1715 - though it hasn't stood nearly as
well, nor is it as large.

1718. Good stand, otherwise about like 1715, but
only about 6 ft. high.

1719. Very nearly like 1715, but hasn't stood quite
so extensively. 8 ft.

1720. Very nearly like 1719. about 9 ft.

1721 a counterpart of 1719.

1722 ditto.

1723 Almost exactly like 1715.

1724 ditto but 2 feet shorter.

1725 " about 1 foot " "

1726 " about 6½ feet high.

1727. About like 1719. 7½ feet.

1737. 3 stalks. 2 to 4 suckers. abundant and large
leaves. not headed. large stalks. 6 feet good.

1739 Very thin stand. same as 1737.

1740. 1 plant. 5 suckers. same as 1737. N.g.

1742. Same as 1715. Leaves a little larger.

1743. Same as 1719. 7 ft.

2050. Very similar to 1719. but has smaller
leaves. 7½ feet.

1599. thin stand. few suckers 1 or 2. leaves average heads. mostly goose neck some straight. Very compact. ripe some time. average stalks $7\frac{1}{2}$ ft.

1601 Stand good. stalks fair. 2 or 3. Similar to 1755. Ripe a week. 8 feet.

1662. Very similar in growth to 1719. 6 feet high.

1717 Similar to 1719 - but leaves a little more coarse ^{8 ft}

1810. good stand. nearly like 1715:

2048. Same as 1662 apparently. 5 feet high.

2052. good stand. Stalks fair 2 to 3. leaves a little better than the average. heads slightly drooping, open, fair size. ripe for some time average stalks 10 feet high even.

India Sorghums. as a group they do not hold out much promise. The only ones that seem of any value, will not mature in this locality, apparently.

14600. Stand good. stalks scarce. 1:3. leaves average heads goose neck, quite few. not even, about half of them ripe. stalks average. 8 feet.

14501. fair stand. very little stooling. average leaves,
heads goose neck. close. green. 10 feet high.

14502 Very much like 14501, but heads are larger
and a little earlier. also open.

14503. Good stand, stools fair 1:3. fair leaves.
^{a few goose necks.} heads erect, open. green yet. small stalks 8 ft.

14504. Good stand, stools scant, 1:3. good leaves,
heads goose neck, with a few exceptions, good
size close. nearly ripe. about 10 feet.

14505 Very similar to 14503. 6½ feet high.

14506. Very nearly like 14501.

14507 Fair stand, scant stooling, 1 or 2. leaves fairly
good. heads, goose neck very large. green.
close. 7½ to 8 feet It is a little promising.

14508. Fair stand. fair stooling. 1 to 2. leaves average.
heads goose neck, open, ripe. 8 feet high N. G.

14509. Very much like 14501, but heads
are larger, and more open.

14370. Thin stand, few stools, average leaves, not headed yet. 6 feet.

14511 Very nearly like 14303 - 10 feet high - halves

14512. Thin stand, few stools, leaves better than average heads goose neck green. 8 feet. very good.

14513 - Thick stand, fair stooling 1:3. average leaves. goose neck heads, green. large stalks. 10 feet.

14514. Thick stand. good stooling 2 to 3. leaves good. heads half straight and goose neck. green but open stalks quite slender. 8 feet.

14515 - Similar to 14514. a little earlier. 8 1/2 feet.

14516. Similar to 14504. 9 feet high. all goose neck

14517 - Thin stand: very like 14302. 8 feet.

14518 ditto, 10 feet high. ^{very} large heads.

14519. thin stand, few stools, average leaves. heads erect but green. 7 feet.

thin stand.

14520. Very much like 14502. green and open.

14521. Thin stand. little stooling. average leaves. heads goose neck, green open, large. $8\frac{1}{2}$ ft.

14522. Thick stand fair stooling. very like 14502.

14523. Practically just like 14501.

14524. Practically like 14503 in growth.

14525. Good stand. stooling good. very like 14502.

14526. - Fair stand, very little stooling average leaves ^{8 ft.} heads goose neck. open. green. slender stalks

14527. good stand. some stooling leaves quite good. heads half goose neck and erect. open and green, stalks fair sized, $7\frac{1}{2}$ feet. looks fairly good.

14528. Very thin stand, little stooling. fair leaves, goose neck, large green. done. $7\frac{1}{2}$ feet. quite good.

14529. Thick stand, fair stooling. good leaves. heads not out far enough to pass on them. 9 feet high. good for forage maybe.

14530. Very similar to 14529, but a little earlier

14546. Very like 14529. Heads hardly out yet. 9 ft.

14527. Very like 14529, heads very small, and goose neck

Good stand
14548 Very similar to 14523. smaller heads.

good stand.
14549. Practically like 14501, but larger heads ^{10 ft.} and open

14530. Fair stand. some stooing. fair leaves
heads gone neck, close, green, stalks large

14551. In growth nearly like 14529. but dried up now
green open goose neck heads. 9 ft. high

14552 practically identical with 14549. 10 ft.

14553. Very similar to 14528.

14554. Good stand, stood well. leaves good. head
goose neck, close, beginning to ripen. stalks
fair size about 9 feet high.

14555 - Very similar to 14501. 8 1/2 feet. good
stand. fair stooing. looks pretty fair

14556. Very nearly like 14502, but dried up more, and only about $8\frac{1}{2}$ feet high. N. J.

14557. Good stand. little stooking average leaves heads gone neck all green. 8 feet. slender.

14558. Stand good, stooking good. Leaves below average. Heads gone neck and erect. green. open. stalk small. $7\frac{1}{2}$ feet high.

14559. Very similar to 58, but smaller heads.

14560. Good stand. stooking scarce. leaves about average. heads gone neck. green. but compact. fairly large stalks. $7\frac{1}{2}$ feet high.

14561. Good stand stool fair. Leaves good. heads gone neck very small green. $9\frac{1}{2}$ feet.

14562. Thin stand similar to 14533. no heads yet.

14563 Very like 14502. heads larger. $9\frac{1}{2}$ feet.

14564 like 14563. - 9 feet.

14565 Very similar to 14564. but smaller heads and more compact.

14566. Practically identical with 14563. 9 ft.

14567. Seems similar to 14584. but heads not out yet.

14568. ^{Good stand.} Very like 14582. heads larger. 10 feet.

14569. Thin stand. little stooling. average leaves
heads goose neck. compact. green and small.
looks fairly good. 8 feet high.

14571. Good stand. Very similar to 14501.

14572. Good stand. a little stooling. leaves average.
heads goose neck & straight. open green. $5\frac{1}{2}$ feet.

14573. Practically the same as 72. larger. 6 feet.

14574. Same as 14571.

14575. ^{good stand.} Nearly the same as 14502. $8\frac{1}{2}$ feet.

14576. Same as 14568.

14578. Good stand. fair stooling. leaves below
average. heads goose neck. open and
green. looks very good. 8 feet. slender.

14579 Very like 14569. good stand smaller heads.

14580. Very like 14502 9 feet. heads larger.

14581. Good stand stood a little. leaves fair. has not headed yet. 11 feet. Will yield immensely. may be good.

14582. Quite similar to 14502. heads smaller.

14583. Good stand, fair looking. leaves below average. Heads, most erect. small. open, and nearly ripe. 8 feet slender stalks.

14584. Grown very similar to 14502. but is earlier as it is nearly ripe. 10 ft. quite a number of straight heads.

14585. Grown very similar to 14502 but it is earlier as it is nearly ripe.

14586. Thin stand, little looking. poor leaves. heads gone neck close, fair size nearly ripe. 7 ft. Like the Phouras.

14587 Like 14586. about 6 $\frac{1}{2}$ feet high.

on the night

A Killing Frost between Oct. 11 and Oct. 13. 2 light frosts before but they did no damage to peak off.

Oct. 13. -

14588. Fair stand, standing fair, leaves average. heads goose neck, close. nearly ripe, a little uneven ripening, stalks average. 7½ feet.

14589- like 14588. 8 ft.

14590. Similar to 14588, heads larger and open. 8½ ft.

14591. Good stand, stools fair. Leaves average. Heads goose neck, open, nearly ripe. 10 feet, average stalks.

14592 Very nearly like 14588, leaves a little scar.

14593 Very similar to 14591- heads smaller. 9 ft.

14594. Very similar to 14588- some erect heads. 9 ft.

14595. Good stand, similar to 14588. 9 ft.

14596. Thin stand, little standing, average leaves. Heads goose neck, large open, beginning to ripen. 8½ ft.

14597. Similar to 14588. rather green yet. 8 $\frac{1}{2}$ ft.

14598 - Very thin stand, a little stooling. Leaves average, heads gone neck, good size, close, almost ripe, stalks good size. 10 ft.

^{fair stand,}
14599 - Very similar to 14598. heads more open. 8 $\frac{1}{2}$ ft.

^{thin stand.}
14600 In growth very like 14598. uneven. 8 feet.

14601 Like 14800. nearer ripe, heads quite open.

14602. Very thin stand. fair stooling. heads gone neck, close, nearly ripe. 6 feet.

14603. Very similar to 14588. 7 feet.

^{leaves below average.}
14604. Fair stand. stooling fair. heads some goose neck and erect. open. ripe. 9 ft.

14605 - Good stand. very like 14598. 10 ft.

14606. Thin stand, a little stooling. heads gone neck, small, close, ripe. stalks thin. 6 $\frac{1}{2}$ ft.

14607. Very like 14588. heads more open. 8 ft.

14608. Very much like 14594 - and 5. 9 ft.

14609. Good stand, stooling fair. heads part erect, and part goose neck. open, mostly ripe. 9 $\frac{1}{2}$ feet.

14610 Very much like 14609.

14611. Thin stand. practically same as 14588. 8 $\frac{1}{2}$ ft.

14612. Thin stand, fair stooling. heads goose neck, small, compact. almost ripe. 10 feet high.

14613. Good stand good stools, goose neck. close ripe. not large. about 9 ft.

14614. Stand good, stools ditto. leaves poor. heads most goose neck. fair size, open, green. 8 $\frac{1}{2}$ ft.

14615. ^{fair stand.} like 14. heads more open and larger.

14616. thin stand, little stooling. heads mostly goose neck. open green, good size. 8 $\frac{1}{2}$ feet.

14617 good stand, good stools. heads goose neck, small rather open ripe. 8 feet high.

14618. Same as 17. more erect heads. more open. 9 feet

14619. Thin stand, good stools, leaves good. heads goose neck, fair size, close, nearly ripe. $9\frac{1}{2}$ feet.
14620. fair stand. good stools, poor leaves, goose neck, small, close, beginning to ripen. $7\frac{1}{2}$ feet.
14621. ^{good stand.} Very similar to 14388. earlier, nearly ripe. $7\frac{1}{2}$ ft.
14622. Good stand. stools fair. heads mostly goose neck, quite open. fair size ripe. $8\frac{1}{2}$ feet high.
14623. Good stand and stools, ^{leaves poor.} heads goose neck, small, close, green. not much good. $8\frac{1}{2}$ feet.
- 14624 Very much like 14623.
14625. Thin stand. like 623. 8 feet. some erect heads
14626. Very like 14619. a few erect heads. browned. $9\frac{1}{2}$ ft.
14627. Good stand, stools good. heads goose neck, close, small, beginning to ripen. 9 ft.
14628. Thin stand. Very little stooling. heads all goose neck, fair size compact. green, beginning to ripen. $8\frac{1}{2}$ feet.

4629 - Good stand, little stooling. heads mostly gone neck, some erect, close, beginning to ripen, 8 feet.

4630 Thin stand, similar 14629. heads larger and more open.

4631. Very similar to 14588. nearer ripe in all.

4632. Stand good, stooling fair. heads gone neck close, fair size-green. stalks 10 feet.

4633. fair stand. fair stooling. leaves very good. heads gone neck, large, open, green. 9 ft. looking

4634. Very similar to 14625.

4635. Very much like 14588 - nearly ripe. 7½ feet.

4636. Practically the same as 14623. 9 feet.

4637. ditto. nearer ripe.

4638. Practically like 14623. 9 feet.

4639. Fair stand. some stooling. heads are nearly all erect, some gone neck. open small, green, 8 feet high.

141640. Stand fair. some stalks. heads gone neck. fair size ~~alone~~, beginning to ripen. 10 feet.
141641. Same as 640, nearer ripe. only 9 feet.
141642. Good stand, same as 640 heads smaller compact.
141643. Same as 640. some erect heads. 8½ feet.
141646. Good stand, fair stooling. leaves fairly good. Just heading. 11 feet high good forage.
141647. fair stand. Very similar to 646. 12 feet high.
141648. Same as 646 practically a trifle earlier. 12 ft.
141649. Same as 646 nearly. leaves fine good. 12 feet. would seem to be excellent for forage.
141650. Shows the same characteristics, but ⁶⁴⁶ ~~and~~ wet ground retarded its growth. 9 feet high. not heading yet.
141651. Thick stand no stooling hardly. leaves excellent. just beginning to head. 8 feet high. looks very good.

4652. Same general characteristics as 14646. It is
just beginning to head, 10 feet high. Leaves scarce.

4653. Identical with 14652, I believe.

4654. Practically the same as 14646. 11 feet.

4655. Same as 14650. 8 feet high. Not heading yet.

4656. Thick stand fine stooling. Leaves good.
No heads yet. Stalks slender, about 11 feet
high. Looks as if it would be fine for forage.

4657. Practically same as 14646. Leaves rather
scarce. 13 feet high about. just heading.

4658. Apparently identical with 14657. 13 ft.

4659. Growth very similar to 14646 - but heads
are apparently different. just heading. 10 ft.

4660. - Good stand little stooling. like 14646. 10 feet.

4661. - Practically same as 14646. 11½ feet. just heading.
Poor leaves.

4662. Apparently identical with 14661. 11 ft.

14663. Practically like the preceding ones. $11\frac{1}{2}$ ft.

14664. Thin stand. Shows same characteristics as preceding ones, but owing to being in a low wet place has made poor growth. 6 ft.

14665. Same as 14646 - height $10\frac{1}{2}$ ft.

14666. Thin stand little stooling. Leaves average. Heads nearly all goose neck. small, compact, nearly ripe. 9 feet. U. G.

14667. Fair stand, fair stooling leaves average. Heads mostly erect. fair size. Close. very nearly ripe. about 9 ft.

14668. Practically identical with 14667.

14669. Thin stand, very similar to 14666. 7 feet. low ground.

14670. Practically identical with 14666. $10\frac{1}{2}$ ft.

14671. Good stand little stooling. Leaves average. Heads erect, close, fair size, ripe some time. Brachaine sorghum looks like some of the standards - 10 feet high.

4672. In habits of growth very similar to 14646. Heads mostly goose neck. very small. compact green, 13 feet about. leaves a little below av.

4673. Very similar to 14666, ^{ripe} about 9 ft. N. g.

4674. Like 73 in character, little later. 15 feet.

4675. Thin stand, little stooling. leaves good. heads about half and $\frac{1}{2}$. rather open. nearly ripe. large ^{very} noticeably branching near the top, might yield grain well. 9 ft. Not very good.

4676. Fair stand. similar to 14675 = ripe. 9 ft.

4677. Very similar to 14676. all goose necks. not quite ripe yet. 10 feet.

4678. Very thin stand. Same as 14666. 8 feet. low ground.

4679. Good stand. little stooling. poor leaves. heads nearly all goose neck. fair size. close green. don't seem worth much. $9\frac{1}{2}$ feet.

4680. Good stand, fair stooling. heads goose neck, average, compact nearly ripe. 8 feet. N. g.?

141681. Fair stand, a few stools. heads gone neck,
large, close. green. 9 feet high.
141682. Good stand. little stooling. gone neck
heads, small compact. green. 10 ft. high.
141683. Very similar to 141681. wet ground 7½ feet.
141684. Fair stand, some stooling, heads gone
neck, fair size compact, ripe 2 weeks. 8½ ft.
121685. Fair stand, a little stooling. heads gone
neck, small, compact, green. 10 feet. 11/9.
141686. Very similar to 85 - heads larger and more open. 9½ feet.
141687. Practically the same as 141674. Not much good.
141688. Practically the same as 141684. good stooling.
141689. Thin stand, same as 121685. 10 feet.
141690. Good stand. fair stooling, heads nearly
all gone neck, open green, fair size. 10 ft. heads nearly
141691. Habit same as 141684. 10 feet. just ripe.

10 ft

4692. Appearance nearly same as 660. short heads erect gen.

4693. Good stand, very little stooling. leaves very good.
heads gone neck compact. green. 8 ft. looks good

4694. Very similar to 14682. nearly ripe. 9½ feet.

4695. Good stand, a little stooling. leaves very scant.
heads erect, open small, green 10 feet. N. J.

4696. Very nearly identical to 14693. 8 ft. looks good

4697. Good stand. fair stools. heads gone neck.
small, compact, nearly ripe. 9 feet. not much g.

4698. Good stand. stools scant. No heads, just coming
fine leaves. 9 ft. Looks very fine.

4699. Very similar to 14695. 9 feet. not much ^{nearly ripe.}

4700. Very similar in growth to 14688. a little
later however. nearly ripe. 9 feet.

4701 Very much the same as 14695. 10 ft. nearly ripe

4702. Practically identical with 14701. —

14703. Very nearly the same as 14684. ripe Oct 1. 9 ft. smaller heads.

14704. Same as 3. ripe a week. looks fairly good.

14705. Thin stand, fair stooling. good leaves. gone neck, fair size. close, ripe 1 week. 9 ft. O.K.

14706. Good stand, fair stooling, heads gone. neck noticeably branching. small dense ripe Oct 1. 7 feet high.

14707. Fair stand, good stooling, leaves poor. heads erect, spreading, fairly large. Ripe 3 weeks. stalks slender. $6\frac{1}{2}$ feet.

14708. Fair stand. little stooling. leaves ^{quite} good. heads gone neck. compact. green small. 9 feet.

14709. Good stand, fair stooling. saccharine rough. heads erect, spreading, fair size, ripe 3. $7\frac{1}{2}$ ft.

14710. Very similar to 146416. gone neck. green ^{small}.

14711. Good stand, some stooling, good leaves. heads gone neck. large, open green. 10 feet looks fairly good.

14712. Very similar to 11. heads closer, leaves better, nearer ripe. about 11 feet looks good.

14713. Thick stand little storking. fine leaves. heads gone neck good size. close, beginning to ripen, looks like brown Phoma. 6 feet. looks nice.

14714. Very similar in growth to 14711. nearly ripe. 10 ft.

14715. Practically identical with 14709. ripe 2. ^{better rip.} 9 ft.

14716. Very much like 14646. goose neck, small, compact, green. 10 feet.

14717. Very nearly like 16. 11 feet high. looks fair.

14718. Thick stand, little storking, poor leaves, heads goose neck, compact, very small, nearly ripe. 11 feet. don't seem to be of much value.

14719. Good stand, storking fair leaves good. goose neck with few exceptions. fair size close, ripe 2 weeks. very branching at head. 8 ft. looks fairly good.

14720. Almost identical with 14719. 8 ft.

14721. Same as 14720, to all practical eyes. 8 ft.
ripe 2 weeks, both thin stalks.

14723. Good stand fair stooking. heads erect,
drooping, open. ripe 2 weeks. stalks
average. about 8 1/2 feet. looks fair.

14724. Good stand, fair stooking. poor leaves,
heads mostly erect. close, fair size. nearly
ripe. about 8 feet high. U. G.

14725. Good stand, fair stooking. heads erect
drooping. Looks like a good black saccha-
sory hum. heads open, large. ripe some time.
stalks average. 10 to 10 1/2 feet.

14726. Thick stand. some stooking, poor leaves.
heads erect, small open, green. 11 1/2 feet.

14727. Similar in growth to 26. better leaves,
heads closer. 12 1/2 to 13 feet. high.
looks very good for forage.

14728. Good stand, stooking fair. good leaves.
heads erect, good size open. some ripe
others not. looks very good. 8 feet.

14729. Very like 14686. goose neck green. 11 feet. ^{Good.} looks

14730. Very similar to 14729. 10 1/2 feet. looks good.

14731. Same as the two preceding ones.

14732 Very much the same as the preceding ones. some erect heads, more open. 13 feet high. It looks very good.

14733. Thick stand, some stooling, few leaves. Most heads erect. close, green, small. stalks fair size. 14 ft. looks fairly good.

14734. Thick stand, little stooling. leaves good. nearly all heads erect, small compact. ripe at 1. branching. 9 feet high. looks good.

14735 - Good stand, some stooling, quite good leaves. heads goose neck close green small. 8 ft. looks pretty fair.

14736. Thick stand, little stooling, heads mostly erect, close green, small. 10 ft. M.g.?

14737. Very like 14736. 9 ft. poor soil.

14738. Good stand, some stooling. heads
about half and half. Average
size nearly ripe. Close, 8 1/2 ft.

14739. Very similar to 14733. Just heading,
about 11 ft. looks fairly good.

14740. Seems somewhat mixed. Standing good,
stooling scant. leaves very good. heads
just coming out. height 9:11 ft. looks OK.

14741. Thick stand, stooling scant, leaves
below average. heads mostly goose
neck, small, close, green. about
~~11 1/2 feet~~ Looks ~~fairly~~ good.

14742. Good stand, some stooling, heads mostly
erect, small, close, ripe, 2. branching
at top. 10 ft. looks fairly good.

14743. Very much like 14740, goose neck, very
small, compact, green. 13 ft.

14744. Almost identical with 14743. looks good

14745. Very similar to 43 and 4. heads larger and more
open. 12 feet

14746. Thick stand, little stooling, fair leaves. heads mostly erect, fair size, open, nearly ripe. 11 to 12 ft. looks pretty good.

14747. Very similar to 46. a little later.

14748. Good stand, a little stooling. leaves quite good. heads mostly erect, good size, close, green, 11 ft. looks pretty good.

14749. Good stand, little stooling. heads nearly all erect, close, fair size, beginning to ripen. 10 1/2 ft. looks very good.

14750. In growth ~~it is very similar to~~ 14749. 9 ft.

14751. fair stand, little stooling. heads nearly all erect. small, compact, ripe. 8 ft. doesn't seem worth very much, but is on poor ground.

14752. Good stand little stooling. hasn't headed enough to tell. 8 feet. not much good I guess.

14753. Nearly all heads are goose neck, otherwise it is very similar to 14751.

14754. Very similar to 14733. Heads gone neck 13ft.

14755. Seems about half gone neck, and half erect. otherwise similar to 733. good leaves. about 14 feet. looks good. too late.

14756. Very similar in growth to 733. haven't headed yet and in 13ft. looks good. late.

14757. Same as 14756 apparently.

14758. Thick stand some stoling, fair leaves. heads just coming out. apparently gone necks, green, small. else 9ft high. looks fair but is too late.

Oct. 14 -

14759. Good stand, little stoling. No heads. 6½ ft.

14760. Same as 59. 7½ feet due to better ground.

14761. Thick stand, a little stoling. poor leaves. heads mostly erect, small, compact. ripe. About 9 ft. Seems of little value.

14762. Good stand, some stoling, heads mostly

erect, close, fair size ripe. 10 feet. looks fair.

14763. Practically the same as 14762. Not quite ripe yet. about 11 ft. looks fairly good.

14764. Thick stand, some stooling. leaves below average. Heads about half and half. small compact green. 10 feet. doesn't seem worth much.

14765. Good stand, fair stooling, fair leaves. no heads. 6 feet. ^{poor}

14766. Thin stand, some stooling. heads erect, fair size open, ripe 2 weeks. sacch. sorghum. 8 ft. fair.

14767. Good stand, fair stooling. heads erect, close small, ripe. 8 ft. reserves of little value.

14768. Thick stand, a little stooling. ^{poor leaves.} heads nearly all erect, fair size, close, ripe. 9 ft high.

14769. Very like 14709. ripe 2 weeks. 8 ft.

14770. Very much like 14768. not quite ripe. 9 ft.

14771. Practically not any different from 14768 and 70. 8½ feet. Doesn't seem of value.

14772 - Good stand, a little stooling. fair leaves.
heads erect, fair size, close, ripe. 7 ft.

14773. Very much like 14707. 6 ft high.

14774. Like 14773. Leaves poor on there 3.

14775. Ditto.

14531. Stand good, stooling fair. heads gone
neck, small, compact, green. height
about 12 feet. looks fairly good.

14532. Practically the same as 31. 10 feet. poorer soil.

14533. Fair stand, some stooling. heads
mostly gone neck, fair size, compact,
green. 9 feet. Don't seem valuable.

14534. Fair stand, fair stooling. Most heads
erect, fair size, open, green, 8 feet.
might do pretty well on good soil.

14535. Good stand, fair stooling. heads
mostly gone neck. quite large, close,
green. would grow large on good soil. but
doesn't seem to be very valuable. 8 ft.

14536. Thick stand, little stooking heads mostly erect, small, close, green. 6 feet high. looks fair.

14537. Thick stand, fairly good stooking heads mostly erect, fair size, close, green. 9 feet high, looks pretty fair.

14538. Very similar to 14537, poor leaves, just heading and seem gone neck. 12 feet high.

14539. Fair stand, good stooking. heads mostly erect, fair size, open, nearly ripe. 10 ft.

14540. Thin stand. Pretty good stooking, fairly good leaves, heads, goose neck, large. Close, green. 11 feet. looks fairly good.

14541. Stand good, stooking good, heads seem mostly erect. average size, close, green. 9 feet. looks fairly good.

14542. In growth same as 14541. heads seem somewhat different but not much. 9 ft.

14543. Thick stand. some stooking. leaves poor. heads goose neck, small, compact, green. 12 ft.

145214 good stand. fair stooling; heads nearly all goose neck. fair size. close, ripe for a couple of weeks. 9 feet N. G.?

1413213: good stand, some stooling. heads nearly all goose neck, fair size. close, green. 11 feet. looks fair but leaves aren't too plentiful.

Foreign, from St. Louis.

2. a very few plants, stooling fine. leaves excellent. no heads. 6 feet. looks good. very large stalks,
3, 4, & 5, nothing.

6. 3 plants. 1 stool each. leaves fine no heads. looks good, though stalks are large and coarse. 4 feet.

7. Good stand, a little stooling, leaves poor. heads drooping. large, open. ripe 2 wks. stalks bent by weight of head. about 9 ft long but bent so they are only 7. looks fairly good.

8. Good stand, some stooling, heads mostly erect, small, compact, ripe. 10 feet. N. G.

9. Practically the same as 8. 9 feet high low growing

10. Thin stand, a few stools heads large neither
good neck nor erect. green close. stalks
of enormous size. and 13 feet high. It is
too coarse I believe for forage work.

11. Almost exactly like 8, so far as growth
is concerned. It just don't seem of any value.

12. stand good. stooling good. leaves poor.
heads between good neck and erect. small
compact ripe & sweet. 8 feet doesn't
seem to be worth much.

13. Practically the same as 12.

14. Fair stand and stooling. heads mostly
erect. compact. green. small. 9 feet. It
doesn't look very promising.

15. Similar in growth characteristics to 14. but
it is a little earlier, being nearly ripe. 9 ft

16. Stand good stooling fair, poor leaves. heads
erect. small. compact. green. 9 ft. No G.

17. Thin stand, stooking excellent. leaves ditto.
no heads, too late. 4 feet. stalks good size.

18 - Nothing.

20 - Stand thin, stooking superb. leaves ditto.
Not headed yet. Too late. stalks of very
large caliber. 7 feet high. too coarse
stalks I am afraid.

19. 3 stalks, practically same as 17.

21. Same as 18.

22. fair stand, stooking good. leaves good,
no heads. stalks not large. 7 ft.

23. Very similar to 20 in habit of growth.

24. Seems exactly the same as 20.

25. Same as 18.

26. 2 stalks, has grown nearly the
same as 20, but has not stooled
nearly so freely.

27. Good stand, some stooking. Leaves poor. heads nearly all erect, fair size, open, ripe 2 weeks. 7 feet high, looks pretty fairly good. white grain.
2647. Good stand, fair stooking. heads are mostly goose neck. fair size, close, ripe, 8 feet high. Looks fairly well for a goose neck.
2648. The same in habits of growth as 2647. 6½ feet high ripe.
2650. Stand fairly good, stooking fair, leaves a trifle below average. heads erect, good size, spreading, ripe for 1 week. 8 feet high looks very promising.
- 30 - Fine stand, no stools - good leaves. Heads erect, fair size, close. ripe Oct 1. Stalks average for kafir. 6½ feet. looks fine. White.
- 31 - Milo Maize. Fine stand, some stools. heads nearly all goose neck. fair size, close. ripe Oct. 1. stalks good size. 8½ feet high looks very good.

33- Jerusalem Corn. Perfect stand. ~~no~~ tools.
leaves average. Heads about half goose
neck, fair size. ripe, Oct. 1. close.
stalks average or less. 7 feet high looks fair.

34- Red Kafir. In growth and general
characteristics not different from
30- White Kafir. $6\frac{1}{2}$ feet.

2653. ~~Texas Seeded Ribbon Cane.~~ ^{goose neck sorghum.} Thick
stand, some stooling. leaves very
good. heads nearly all goose neck,
good size, close, nearly ripe.
stalks good size, 9 feet. looks very
fine, would seem good for forage.
as it is very sweet and juicy.

2652. Texas Ribbon Cane. Very similar
to 2653. but the heads are larger.
It is also ripe. fine appearance.
10 feet high. It seems very good.

2646. Amber. Fine stand, a little
stooling. leaves fair. heads erect
close ripe (week). rather small. Don't
believe it is amber. stalks slender. $2\frac{1}{2}$ ft.

Notes on the legumes in the
Grass Garden.

Oct. 17 -

4380. A Thick stand plant made
very vigorous growth. It is a decided
trailer and is objectionable on this
account. It has flowered and
fructed well, but it is not
ripe yet. The frost has not hurt
it, due to a sorghum protecting it.
It should be planted earlier here
in order to mature. It has ^{pure} white
flowers and also white pods, and
presents a very pretty appearance.
I do not consider it very promising.

4383. A Thick stand, In habits of growth
quite similar to 4380, but does not
run to vine nearly so badly. It also
has flowered and fructed well, but is
not ripe yet, and the frost has affected
it quite seriously. The flowers a pinkish
red color and as they are in long racemes
they are very pretty. It must be
planted earlier for this locality.
I think it quite promising.

4384. Its method of growing is very similar to 4380. There is a thick stand. It runs to vines very badly. The flowers are the same color as 4383, but the pods look very much like 4380, though not so light a color. It has not fruited very extensively and is very late. Frost has nipped it pretty severely. On account of its immense, viney growth, I do not consider it as very valuable.

5040. A Thick stand which has made an immense growth. It is very viney running out to great lengths. It is not suited to this locality if seed is considered as it has not flowered yet. I do not consider it of any value as it runs to vine to such an extent it can not be handled. It is rather coarse, having large stems which are rather woody.

6324. *Canavalia* This is a very low growing, trailing thing which has fruited but little. The pods is the

only thing about it that is noticeable. They are of immense size, and though they have been growing for a long while they are not ripe yet. The frost has not damaged them very much. I do not consider it worth anything.

4069. Metcalf Bean. Runs right along the ground, and is no good. has not flowered at all. It has a poor appearance in general.

2171. Velvet Bean, *Mucuna Utilis*. A thick stand, which has made a large vigorous growth. It has not flowered. ~~It~~ it does not fruit here it is of no especial value as it is rather too trailing for forage or green manuring purposes.

14474. Cowpea. - 60 day. A good thick stand which made a very vigorous growth, bloomed, and formed many pods but it was too late in the season for it to mature. Frost here killed it badly. Must be planted early. Then

41974. A good stand. has made very fair growth, has fruited reasonably well. It is quite an erect grower and is fairly promising on this account. One of the characteristics of the bean is the length of the pod it almost resembles the yard-long garden bean. It was ripe before the frost.

8355. A good stand and fairly vigorous growth. It has fruited real well but is not ripe yet by considerable and the frost has nipped it up badly. It is a trailing grower but is no worse than many of the cowpeas. The pods peculiar, flat, broad rough looking and are much larger apparently than they need to be to hold the beans. They must be planted earlier to yield anything here. They are not very promising in my estimation.

8356. A thick stand. Very vigorous growth. It has fruited very extensively. It is very similar in growth to

8355; but is much more of a trailer.
A few of the pods are ripe. If
it was planted earlier, I believe
it would be a very good grower
and yielder. It is quite promising.

8357. A good stand which has made a
vigorous growth. It has fruited
real well. Looks very much
like 4383, only it is larger. They
are very closely related. It is
fairly erect and quite promising.
A few pods are beginning to
ripen, and if planted in season
there wouldn't be any trouble about
it getting ripe.

110721. Thick stand, good growth.
A decided trailer, though some
cobs appear do nearly as bad. It is
about 18 inches high. Fruited fairly
well and pods ripened before frost.
Pods are long slender things.
It is not especially promising
but it is worth further trial as it
was put in rather late.

11075. Thick stand, very vigorous growth making a complete covering for the ground. It is a running variety, and the runners are at least 6 feet long many of them. It has not flowered at all, and seems to be too late for this section even if planted early. Its running habit is also against it, and it does not seem of much value for us.

11076. It is apparently identical with 11075. No flowering done.

11091. Thick stand, Vigorous growth. It is also a trailing grower, and runs to vine pretty badly. It is early, and was ready to pick by the first of Oct. It has long slender pods. It looks like it might be of some value.

12752. Kulithe Beans. Very thick stand. Has made a vigorous growth. It is semi trailing,

small leaves, fine stems, soft and nice. It has yellow flowers. Quite many pods were formed but frost came too early for it to mature. I believe it would mature if planted early in the spring. It is very promising as it would produce a wealth of fine forage, providing of course stock would eat it.

Oct. 18.

7022. Lupine. There was a good stand of these. They made a very fair growth for a while, and began to bloom, when they began to blast. They formed pods all right but can't mature the seed it seems. There are a few ^{plants} that have matured their seed and it might be worth while trying them another year and see if they are any good. As a class the lupines do not seem to be of any value for this locality, and they are not worth bothering with.

10327. *Phaseolus*. Made a very good growth. Thick stand. They have flowered and fructified well, and were nearly ripe when frost came Oct 12. They were about 15 in. high and looked fine. I believe they are worth growing on an extensive scale. They mature pretty evenly and would be readily harvested. They would also be good for forage or green manuring.

9666. *Cyanopsis Ploralioides*. India Bean.
A thick stand. Has made a good vigorous growth. It is perfectly erect, about 2½ feet high, very little branching. stems quite large but soft. Providing anything will eat it would seem to be a valuable plant. It flowered and fructified fairly well but is a little ^{too} late to mature its seed. It would mature here if it were planted in the early Spring.

5438. *Phaseolus*. A thick stand, vigorous growth. Rather a viney form. About 20 inches high and runners 3 to 4 feet. Frost nipped it badly. It seems too late for this locality as it has not flowered yet.

5435. Apparently not any different from 5438. It seems a trifle earlier as there are a few flowers on it. It is also a little less vigorous grower. These small differences may be due to conditions of the soil.

5402. *Canavalia*. A very thin stand. An exceptionally vigorous grower but it runs to vine too much. We set some poles for it. and it literally weighted them down. Some of the runners must be at least 15 feet long. It blossoms and set some pods, but it is too late to ripen. Pods are quite large. I do not believe it is of much value. as the immense tangle of vines would make it impractical to handle.

5401. Very similar to 6324. It is of no practical value.

5069. It is similar in growth to 6324, practically the only difference being that the pods are thinner and are longer and more slender. It also is a worthless thing.

Canavalia gladiata, U. S. G. G. It is almost if not quite identical with 5069. Worthless.

6132. Same as 6324. Pods 9 in. long $1\frac{1}{2}$ to $1\frac{3}{4}$, wide and $\frac{1}{2}$ to $\frac{3}{4}$ thick. Of immense size. It is of no practical value.

6323 - Same as 6324, apparently.

Notes on Red Top Selections

April 7 - '06.

Nos. 1, 2, 3, & 4 have each made about the same amount of growth. They are looking quite well though they hold no special promise for ^{early} spring pasture.

Nos. 5-6-7 have made a little better growth than the first four, and 7 is a little ahead of 5 and 6. 7 gives some promise of being a good grass for Spring pasturage.

Nos. 8-10-16-17 have each made fine growth, the best in the series. 8-16 seem to be the more promising for early grass, and they look very good. 10-17 are not far behind however.

9-11-14 are the poorest and have done very poorly. 11 is a little better than the other two, but it

is not at all promising with

12 - B3 Show about the same characteristics as 1-2-3 and 4 - but is probably a little poorer especially No. 12.

No. 15 is about the same as 5-6 and 7. It is a darker colored plant is about the only difference

Cyanopsis Ploralioides.

